

PTO-1449	Application No. 10/014,839		Applicant(s) Mohammed N. Islam	
Information Disclosure Citation In an Application		Docket Number 069204.0177	Group Art Unit 3662	Filing Date December 10, 2001

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<input checked="" type="checkbox"/>	A 6,219,176 B1	4-17-2001	Terahara	359	341	7-21-1998
<input checked="" type="checkbox"/>	B 6,263,139 B1	7-17-2001	Kawakami et al.	385	123	11-9-1999
<input checked="" type="checkbox"/>	C 6,356,383 B1	3-12-2002	Cornwell, Jr. et al.	359	334	3-31-2000
<input checked="" type="checkbox"/>	D 6,404,964 B1	6-11-2002	Bhagavatula et al.	385	123	4-14-1999
<input checked="" type="checkbox"/>	E 6,414,786 B1	7-2-2002	Foursa	359	334	3-27-2000
<input checked="" type="checkbox"/>	F 6,417,959 B1	7-9-2002	Bolshtyansky et al.	359	334	2-1-2001
<input checked="" type="checkbox"/>	G 6,437,906 B1	8-20-2002	Di Pasquale et al.	359	337.2	11-22-2000
<input checked="" type="checkbox"/>	H 2002/0001123 A1	1-3-2002	Miyakawa et al.	359	334	6-21-2001
<input type="checkbox"/>	I					
<input type="checkbox"/>	J					
<input type="checkbox"/>	K					
<input type="checkbox"/>	L					
<input type="checkbox"/>	M					
<input type="checkbox"/>	N					
<input type="checkbox"/>	O					

RECEIVED
NOV 12 2002
GROUP 3600

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<input checked="" type="checkbox"/>	P 1 180 860 A1	19.02.2001	EP	H04B	10/17	X	
<input type="checkbox"/>	Q						
<input type="checkbox"/>	R						
<input type="checkbox"/>	S						

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
<input checked="" type="checkbox"/>	T Hiroji Masuda and Shingo Kawal, Ultra Wide-Band Raman Amplification With A Total Gain-Bandwidth of 132 nm Of Two Gain-Bands Around 1.5 μ m, ECOC '99, Nice, France, pp. II-146 - II-147.	26-30 September 1999
<input checked="" type="checkbox"/>	U Sugizaki, et al., Slope Compensating DCF for S-band Raman Amplifier, OSA TOPS Vol. 60, Optical Amplifiers and Their Applications, Nigel Jolley, John D. Minelly, and Yoshiaki Nakano, eds., 2001 Optical Society of America, pp. 49-53.	2001
<input checked="" type="checkbox"/>	V Vasilyev, et al., Pump intensity noise and ASE spectrum of Raman amplification in non-zero dispersion-shifted fibers, reprinted from the Optical Amplifiers and Their Applications Conference, 2001 Technical Digest, 2001 Optical Society of America, pp. 57-59.	2001
<input type="checkbox"/>	W	
<input type="checkbox"/>	X	

EXAMINER DEANDRA M. HUGHES	DATE CONSIDERED JUNE 5, 2003.
--------------------------------------	---

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE



#6

PTO-1449

Application No.
10/014,839Applicant(s)
Mohammed N. IslamInformation Disclosure
in an ApplicationDocket Number
20434-753
(069204.0177)

Group Art Unit

Filing Date
December 10, 2001

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<input checked="" type="checkbox"/>	A	5,905,838	05/18/1999	Judy et al.	385	123	02/18/1998
	B						
	C						
	D						
	E						
	F						
	G						
	H						
	I						
	J						
	K						
	L						
	M						
	N						
	O						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<input checked="" type="checkbox"/>	P	0 841 764 A2	13.05.1998	EP	H04B	10/24	X	
<input checked="" type="checkbox"/>	Q	2 764 452 A1	11.12.1998	FR	H04J	14/02		X
<input checked="" type="checkbox"/>	R	0 90 3 877 A2	24.03.1999	EP	H04B	10/18	X	

NON-PATENT DOCUMENTS

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
S	PCT International Search Report Form PCT/ISA/210	22 January 2002
T	PCT International Search Report Form PCT/ISA/210	22 January 2002
U		

EXAMINER

DEANDRA M. HUGHES

DATE CONSIDERED

JUNE 5, 2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

PTO-1449

Application No.

Applicant(s)

**Information Disclosure Citation
In an Application**

10/014,839

Mohammed N. Islam #8

 Pocket Number
069204.0177

Group Art Unit

Filing Date

December 10, 2001

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<input checked="" type="checkbox"/>	A	4,616,898	10/14/1986	Hicks, Jr.	350	96.15	09/28/1983
<input checked="" type="checkbox"/>	B	4,699,452	10/13/1987	Mollenauer et al.	350	96.16	10/28/1985
<input checked="" type="checkbox"/>	C	4,932,739	06/12/1990	Islam	350	96.15	09/25/1989
<input checked="" type="checkbox"/>	D	4,995,690	02/26/1991	Islam	350	96.15	04/24/1989
<input checked="" type="checkbox"/>	E	5,020,050	05/28/1991	Islam	370	4	10/13/1989
<input checked="" type="checkbox"/>	F	5,078,464	01/07/1992	Islam	385	122	11/07/1990
<input checked="" type="checkbox"/>	G	5,101,456	03/31/1992	Islam	385	27	11/07/1990
<input checked="" type="checkbox"/>	H	5,115,488	05/19/1992	Islam et al.	385	129	05/10/1991
<input checked="" type="checkbox"/>	I	5,224,194	06/29/1993	Islam	385	122	04/02/1991
<input checked="" type="checkbox"/>	J	5,369,519	11/29/1994	Islam	359	173	02/05/1993
<input checked="" type="checkbox"/>	K	5,485,536	01/16/1996	Islam	385	31	10/13/1994
<input checked="" type="checkbox"/>	L	5,559,920	09/24/1996	Chraplyvy et al.	385	123	03/01/1995
<input checked="" type="checkbox"/>	M	5,623,508	04/22/1997	Grubb et al.	372	3	02/12/1996
<input checked="" type="checkbox"/>	N	5,629,795	05/13/1997	Suzuki et al.	359	337	08/31/1995
<input checked="" type="checkbox"/>	O	5,664,036	09/02/1997	Islam	385	31	10/12/1995
<input checked="" type="checkbox"/>	P	5,673,280	09/30/1997	Grubb et al.	372	3	02/12/1996
<input checked="" type="checkbox"/>	Q	5,778,014	07/07/1998	Islam	372	6	12/23/1996

FOREIGN PATENT DOCUMENTS

<input checked="" type="checkbox"/>	P	0 421 675 A2	10.04.1991	EP	H04B	10/16	X	
<input checked="" type="checkbox"/>	Q	0 9 197452 A	31.07.1997	JP	G02F	1/35	X	
<input checked="" type="checkbox"/>	R	99/66607 A2	23.12.1999	WO	H01S	N/A	X	
<input checked="" type="checkbox"/>	S	00/49721 A2	24.08.2000	WO	H04B	N/A	X	
<input checked="" type="checkbox"/>	T	1 054 489 A2	22.11.2000	EP	H01S	3/067	X	

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
<input checked="" type="checkbox"/>	U	Hansen et al., "Repeaterless transmission experiment employing dispersion," 21st European Conference on Optical Communication, Vol. 2, 1 page	09/17-21/1995
<input checked="" type="checkbox"/>	V	Nissov et al., "100 Gb/s (10x10Gb/s) WDM Transmission Over 7200 km Using Distributed Raman Amplification," European Conference on Optical Communications, paper PD-9, pp. 9-12	09/1997
<input checked="" type="checkbox"/>	W	Hansen et al.; "Loss compensation in dispersion compensating fiber modules by Raman amplification," Optical Fiber Conference OFC'98, paper TuD1, Technical Digest, San Jose, CA, pp. 20-21	02/1998
<input checked="" type="checkbox"/>	X	Lee et al., "Bidirectional transmission of 40 Gbit/s WDM signal over 100km dispersion shifted fibre," Electronics Letters, Vol. 34, No. 3, pp. 294-295	02/05/1998
<input checked="" type="checkbox"/>	Y	Okuno et al., "Generation of Ultra-Broad-Band Supercontinuum by Dispersion-Flattened and Decreasing Fiber," IEEE Photonics Technology Letters, Vol. 10, No. 1, pp. 72-74	01/1998
<input checked="" type="checkbox"/>	Z	Masuda et al., "Ultrawide 75-nm 3-dB Gain-Band Optical Amplification with Erbium-Doped Fluoride Fiber Amplifiers and Distributed Raman Amplifiers," IEEE Photonics Technology Letters, Vol. 10, No. 4, pp. 516-518	04/1998
<input checked="" type="checkbox"/>	AA	Emori et al., "Less than 4.7 dB Noise Figure Broadband In-line EDFA with A Raman Amplified-1300 ps/nm DCF Pumped by Multi-channel WDM Laser Diodes," OSA Conference, paper PD3-1-5, Vail, CO	07/1998
<input checked="" type="checkbox"/>	BB	Rotwitt et al., "Distributed Raman Amplifiers for Long Haul Transmission systems," LEOS, pp. 251-252	12/1998
<input checked="" type="checkbox"/>	CC	Grubb et al., "Detailed analysis of Raman amplifiers for long-haul transmission," OFC Technical Digest, pp. 30-31	1998

EXAMINER

DEANDRA M. HUGHES

DATE CONSIDERED

JUNE 5, 2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

DAL01:684810.1

PTO-1449	Application No.	Applicant(s)	
	10/014,839	Mohammed N. Islam	
	Docket Number	Group/Art Unit	Filing Date
Information Disclosure Citation In an Application	069204.0177		December 10, 2001

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<input checked="" type="checkbox"/>	A	5,790,300	08/04/1998	Zediker et al.	359	334	10/15/1996
<input checked="" type="checkbox"/>	B	5,796,909	08/18/1998	Islam	385	147	02/14/1996
<input checked="" type="checkbox"/>	C	5,815,518	09/29/1998	Reed et al.	372	6	06/06/1997
<input checked="" type="checkbox"/>	D	5,959,750	09/28/1999	Eskildsen et al.	359	134	06/06/1996
<input checked="" type="checkbox"/>	E	5,978,130	11/02/1999	Fee et al.	359	341	09/16/1997
<input checked="" type="checkbox"/>	F	6,008,933	12/28/1999	Grubb et al.	359	341	08/19/1997
<input checked="" type="checkbox"/>	G	6,043,927	03/28/2000	Islam	359	332	01/16/1998
<input checked="" type="checkbox"/>	H	6,052,393	04/18/2000	Islam	372	6	07/07/1998
<input checked="" type="checkbox"/>	I	6,081,366	06/27/2000	Kidorf et al.	359	341	08/28/1997
<input checked="" type="checkbox"/>	J	6,088,152	07/11/2000	Berger et al.	359	334	03/08/1999
<input checked="" type="checkbox"/>	K	6,101,024	08/08/2000	Islam et al.	359	334	03/24/1998
<input checked="" type="checkbox"/>	L	6,151,160	11/21/2000	Ma et al.	359	341	10/05/1998
<input checked="" type="checkbox"/>	M	6,163,636	12/19/2000	Stentz et al.	385	24	01/19/1999
<input checked="" type="checkbox"/>	N	6,181,464 B1	01/??/2001	Kidorf et al.	359	334	12/01/1998
<input checked="" type="checkbox"/>	O	6,191,854 B1	02/20/2001	Grasso et al.	359	124	07/15/1996

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
<input checked="" type="checkbox"/>	Q	01/52372 A1	19.07.2001	WO	H01S	3/30	X

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
<input checked="" type="checkbox"/>	R	Kawai et al., "Ultrawide, 75-nm 3-dB gain-band optical amplifier utilizing erbium-doped fluoride fiber and Raman fiber," OFC Technical Digest, pp. 32-34	1998
<input checked="" type="checkbox"/>	S	Becker et al., "Erbium Doped Fiber Amplifiers Fundamentals and Technology," Academic Press, pp. 55-60	1999
<input checked="" type="checkbox"/>	T	Masuda et al., "Wide-Band and Gain-Flattened Hybrid Fiber Amplifier Consisting of an EDFA and a Multiwavelength Pumped Raman Amplifier," IEEE Photonics Technology Letters, Vol. 11, No. 6, pp. 647-649	06/1999
<input checked="" type="checkbox"/>	U	Nissov et al., "Rayleigh crosstalk in long cascades of distributed unsaturated Raman amplifiers," Electronics Letters, Vol. 35, No. 12, pp. 997-998	06/10/1999
<input checked="" type="checkbox"/>	V	Kawai, et al. "Wide-Bandwidth and Long-Distance WDM Transmission Using Highly Gain-Flattened Hybrid Amplifier," IEEE Photonics Technology Letters, Vol. 11, No. 7, pp. 886-888	07/1999
<input checked="" type="checkbox"/>	W	Yun et al., "Dynamic Erbium-Doped Fiber Amplifier Based on Active Gain Flattening with Fiber Acoustooptic Tunable Filters," IEEE Photonics Technology Letters, Vol. 11, No. 10, pp. 1229-1231	10/1999
<input checked="" type="checkbox"/>	X	Mikkelsen et al., "160 Gb/s TDM Transmission Systems," ECOC, 4 pages	2000
<input checked="" type="checkbox"/>	Y	Nielsen et al., "3.28 Tb/s (82x40 Gb/s) transmission over 3 x 100 km nonzero-dispersion fiber using dual C- and L-band hybrid Raman/Erbium-doped inline amplifiers," OFCC 2000, pp. 1229-1231	03/7-10/2000
<input checked="" type="checkbox"/>	Z	Seo et al., "Compensation of Raman-Induced Crosstalk Using a Lumped Germanosilicate Fiber Raman Amplifier in the 1.571-1.591-μm Region," IEEE Photonics Technology Letters, Vol. 13, No. 1, pp. 28-30	01/2001
<input checked="" type="checkbox"/>	AA	Pending Patent Application; USSN 09/811,067, entitled "Method and System for Reducing Degredation of Optical Signal to Noise Ratio"	Filed 03/16/2001
<input checked="" type="checkbox"/>	BB	Pending Patent Application; USSN 09/811,103; entitled "System and Method for Wide Band Raman Amplification"	Filed 03/16/2001
<input checked="" type="checkbox"/>	CC	Pending Patent Application; USSN 09/916,454; entitled "System and Method for Controlling Noise Figure"	Filed 07/27/2001
<input checked="" type="checkbox"/>	DD	Pending Provisional Patent Application; USSN 60/310,147; entitled "Combined Laser Diode Raman Pumps; Active Gain Equalizers; Bi-Directional Raman Amplifiers"	Filed 05/00/2002
<input checked="" type="checkbox"/>	EE	Pending Patent Application; USSN 10/100,588; entitled "Electro-Absorption Based Modulation"	Filed 03/15/2002

EXAMINER DEANDRA M. HUGHES	DATE CONSIDERED JUNE 5, 2003
--------------------------------------	--

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE

PTO-1449

**Information Disclosure Citation
In an Application**

Application No.

10/014,839

Docket Number
069204.0177

Applicant(s)

Mohammed N. Islam

Group/Art Unit

Filing Date

December 10, 2001

U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
A	6,191,877 B1	02/20/2001	Chraplyvy et al.	359	124	07/15/1996
B	6,236,496 B1	05/22/2001	Yamada et al.	359	341	12/10/1997
C	6,239,902 B1	05/29/2001	Islam et al.	359	334	05/05/2000
D	6,239,903 B1	05/29/2001	Islam et al.	359	337	04/25/2000
E	6,310,716 B1	10/30/2001	Evans et al.	359	334	08/18/2000
F	6,335,820 B1	01/01/2002	Islam	359	334	12/23/1999
G	6,356,384 B1	03/12/2002	Islam	359	334	04/11/2000
H	6,359,725 B1	03/19/2002	Islam	359	334	12/23/1999
I	6,370,164 B1	04/09/2002	Islam	372	6	04/17/2000
J	6,374,006 B1	04/16/2002	Islam et al.	385	15	03/19/1999
K	6,381,391 B1	04/30/2002	Islam et al.	385	123	12/03/1999

FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
L						
M						

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
N	Pending Patent Application, USSN 09/768,367, entitled "All Band Amplifier"	Filed 01/22/2001
O	Pending Patent Application; USSN 09/766,489; entitled "Nonlinear Polarization Amplifiers in Nonzero Dispersion Shifted Fiber"	Filed 01/19/2001
P	Pending Patent Application; USSN 09/800,085; entitled "Dispersion Compensating Nonlinear Polarization Amplifier"	Filed 03/05/2001
Q	Pending Patent Application; USSN 09/719,591; entitled "Fiber-Optic Compensation for Dispersion, Gain Tilt, and Band Pump Nonlinearity"	Filed 06/16/1999
R	Pending Patent Application; USSN 09/760,201; entitled "Low-Noise Distributed Raman Amplifier Using Bi-Directional Pumping Using Multiple Raman Orders"	Filed 01/12/2001
S	Pending Patent Application; USSN 09/765,972; entitled "S+ Band Nonlinear Polarization Amplifiers"	Filed 01/19/2001
T	Pending Patent Application; USSN 10/003,199; entitled "Broadband Amplifier and Communication System"	Filed 10/30/2001
U	Pending Patent Application; USSN 10/007,643; entitled "Multi-Stage Optical Amplifier and Broadband Communication System"	Filed 10/30/2001
V	Pending Patent Application; USSN 10/005,472; entitled "Multi-Stage Optical Amplifier and Broadband Communication System"	Filed 11/06/2001
W	Pending Patent Application; USSN 10/014,839; entitled "Multi-Stage Optical Amplifier and Broadband Communication System"	Filed 12/10/2001
X	Pending Patent Application; USSN 09/990,142; entitled "Broadband Amplifier and Communication System"	Filed 11/20/2001
Y	PCT International Search Report Form PCT/ISA/210	01/11/2000
Z	PCT International Search Report Form PCT/ISA/210	05/14/2001
AA		
BB		
CC		
DD		
EE		
FF		

RECEIVED

JUL 17 2002

GROUP 3600

EXAMINER

DANDREA M. HUGHES

DATE CONSIDERED

JUNE 5, 2003

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

U.S. PATENT AND TRADEMARK OFFICE